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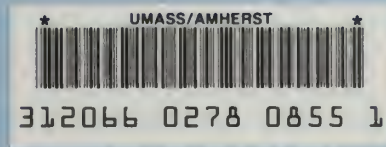


The Commonwealth of Massachusetts
Department of Public Safety



Michael S. Dukakis
Governor

Charles V. Barry
Secretary



Frank J. Trabucco
Commissioner

Joseph A. O'Keefe
State Fire Marshal

FATAL FIRE REPORT

A STUDY OF FATAL FIRES AND FIRE DEATHS IN

MASSACHUSETTS 1970-1984

Prepared By:

OFFICE OF THE STATE FIRE MARSHAL
1010 Commonwealth Avenue
Boston, Massachusetts 02215

March, 1985

Fire Prevention pays the greatest dividends--the saving of life and property



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JOSEPH A. O'KEEFE, PE

State Fire Marshal

March, 1985

(617) 566-4500

A FORWARD BY THE STATE FIRE MARSHAL . . .

Although Massachusetts has made great strides in reducing fire loss and injury through code enforcement, fire prevention innovations, adoption of the latest fire protection and suppression methods, and increased public awareness of fire safety and prevention, we still have a great deal of work ahead of us, as this study of fatal fires and fire deaths in Massachusetts over the past fifteen years clearly shows.

Indeed, this report, which is a "first of its kind" for the Commonwealth, gives to us in the fire services and life safety field the rudimentary tools with which to begin the task of making Massachusetts fire-safe and free of hostile fire.

One of the clearest conclusions which can be drawn from this study is the absolute lifesaving capabilities of the basic smoke detector.

Coupled with the practice of a home escape plan, smoke detectors provide the early warning necessary to get out of a burning building before deadly smoke and fire take their toll.

The fact that multiple fire fatalities have decreased dramatically in Massachusetts in the past decade or so, which is the period when smoke detectors for the home became easily affordable and in many cases mandated by law, speaks to the vital nature of home smoke alarms far more effectively than any other testimony.

But it is not enough to learn how to escape a fire. We as citizens, must learn how to prevent them.

Most fire deaths in the Commonwealth are caused by human carelessness, principally by the careless use and disposal of smoking materials, often when a person is under the influence of alcohol, drugs, medication or simply overtired.

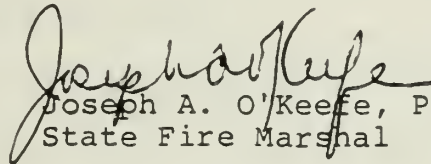
Fire Prevention pays the greatest dividends--the saving of life and property



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As we approach a new decade, we join with our dedicated firefighters and local fire departments in accepting the challenge of reducing fire death, loss and injury. With the help and involvement of our citizens, it is a challenge that can be met.


Joseph A. O'Keefe, PE
State Fire Marshal

SUMMARY

The Incidence of fatal fires and fire deaths seems to fluctuate from year to year and appears to be influenced by weather, the price of gas and oil, the use of smoke detectors, and the incidence of arson.

The number of multiple-death fires in Massachusetts has steadily and significantly declined since 1970.

Nearly all fatal fires occurred in residential occupancies.

Smoking and arson are the leading known causes of fatal fires and fire deaths.

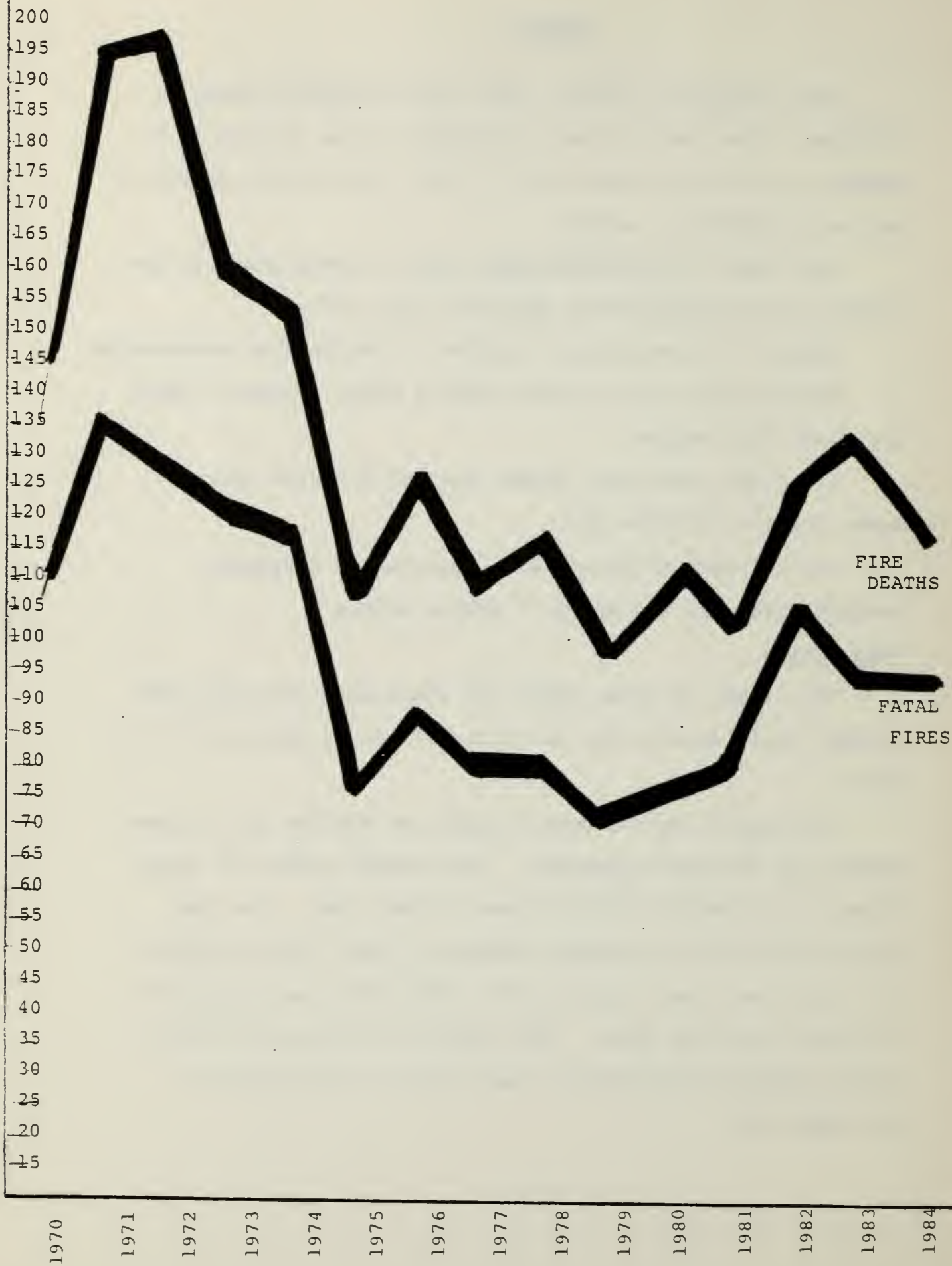
Adult men constitute almost half of all fire victims; women 30% and children 20%.

The majority of fire deaths occurred in December, January, February and March -- winter months.

Fatal Fires

The number of fatal fires has fluctuated over the past fifteen years from as few as 62 in 1979 to as many as 127 in 1971.

In order to spot general trends, we divided the fifteen years into five-year segments. The average number of fatal fires in the period 1970-1974 was 113 per year. For the period 1975-1979 the average number of fatal fires dropped to 70 and has risen slightly for 1980-1984 to an average of 80 fatal fires per year. This allows us to see that fatal fires dropped significantly from 1975 on, but persist at the same rate.



FATAL FIRES^{*} AND FIRE DEATHS BY YEAR

YEAR	FATAL FIRES	FIRE DEATHS
1970	96	126
1971	127	185
1972	120	187
1973	112	150
1974	110	144
5-Year Average	113	158
1975	67	99
1976	80	118
1977	72	98
1978	72	107
1979	62	89
5-Year Average	70	102
1980	67	103
1981	71	92
1982	95	117
1983	84	126
1984	83	112
5-Year Average	80	110

MULTIPLE-DEATH FIRES AND RESULTING DEATHS

<u>YEAR</u>	<u>MULTIPLE-DEATH FIRES</u>	<u>RESULTING DEATHS</u>
1970	7	23
1971	11	48
1972	12	57
1973	7	30
1974	9	34

5-Year Average	9	38

1975	8	33
1976	10	42
1977	10	31
1978	10	37
1979	6	29

5-Year Average	9	34

1980	9	31
1981	5	17
1982	4	19
1983	10	39
1984	5	29

5-Year Average	7	27

15-Year Average	7.5	33.26

Fire Deaths

The number of fire deaths has also fluctuated widely from as few as 89 in 1979 to as many as 187 in 1972.

We conducted the same five-year averaging to spot trends. For 1970-1974 an average of 158 fire deaths occurred each year. In 1975-1979 the number of deaths dropped to an average of 102 per year. There were an average of 110 fire deaths annually in the years 1980-1984, which is slightly more than for the late 70's but one-third fewer deaths than in the early 70's.

Multiple-Death Fires

Paralleling the general decline in fatal fires and fire deaths is a decline in the number of multiple-death fires (fires killing three or more people) and the number of their victims.

Incidence

In the early 70's (1970-1974) an average of nine (9) multiple death fires occurred annually. In the late 70's (1975-1979) the average number of multiple-death fires per year was also nine (9). The average number of multiple-death fire incidents for 1980-1984 has dropped to seven (7) per year.

Victims

More important than a decline in the multiple-death fires themselves, is the drop in the number of lives they claim.

The average number of victims in multiple-death fires has

FIRE DEATHS BY GENDER

YEAR	MEN	WOMEN	CHILDREN	FIREFIGHTERS	UNKNOWN	TOTAL
1970	69	37	22			126
1971	85	51	49			185
1972	83	46	52		6	187
1973	82	44	22		2	150
1974	70	40	34			144

5-year Average	77	43	36			158

1975	52	29	18			99
1976	56	35	27			118
1977	46	29	23			98
1978	51	37	19			107
1979	42	27	19	1		89

5-year Average	49	31	21			102

1980	42	41	22		7	112
1981	48	32	12			92
1982	60	37	13	2		117
1983	54	34	31	1	7	126
1984	63	30	17	1		112

5-year Average	53	35	19		2	112

MULTIPLE-DEATH FIRE FATALITIES

<u>YEAR</u>	<u>MEN</u>	<u>WOMEN</u>	<u>CHILDREN</u>	<u>TOTAL</u>
1970	11	4	8	23
1971	14	11	23	48
1972	15	8	28	51
1973	19	7	7	33
1974	6	6	22	34
1975	9	9	14	32
1976	13	10	19	42
1977	10	9	12	31
1978	13	13	11	37
1979	8	7	14	29
1980	7	7	14	28
1981	8	5	4	17
1982	6	2	4	12
1983	7	6	16	29
1984	15	9	10	30

CIVILIAN FIRE FATALITIES BY AGE GROUP 1982-1984

AGE GROUP	1982	1983	1984	TOTAL	PERCENT	AVERAGE * (for 82-84 period)
5 & Under	10	17	11	38	9.8%	12.6
6-10	2	8	4	14	4.2%	5
11-20	10	11	5	27	7.8%	9
21-30	17	10	8	36	10.8%	12
31-40	10	11	9	30	9.0%	10
41-50	4	7	10	19	5.7%	6
51-60	15	11	11	37	10.9%	12
61-70	18	19	12	49	14.7%	16
71-80	11	10	13	36	10.8%	12
81-90	7	6	8	21	6.3%	7
91 +	2	2	2	6	1.8%	2
Unknown	3	0	28	31	9.3%	10

* Rounded off to nearest whole number.

CIVILIAN DEATHS BY AGE 1982-1984

<u>AGE</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
Under 1	0	2	1
1	2	3	2
2	4	5	1
3	0	2	3
4	2	5	1
5	2	0	0
6	0	1	0
7	0	3	2
8	0	0	1
9	1	3	1
10	1	1	0
11	2	0	1
12	1	1	0
13	1	1	1
14	1	2	0
15	1	2	0
16	0	2	0
17	0	0	1
18	1	0	1
19	3	1	0
20	0	2	1
21	6	3	0
22	1	1	1
23	1	0	0
24	1	2	1
25	1	0	2
26	0	0	1
27	0	0	2
28	4	1	1
29	1	1	0
30	2	2	0
31	1	0	2
32	2	2	2
33	0	3	0
34	1	1	0
35	2	2	1
36	0	1	0
37	1	0	2
38	1	0	2
39	1	0	0
40	1	2	0
41	0	1	0
42	0	1	2
43	2	1	1
44	0	1	2
45	1	0	0

Civilian Deaths By Age

<u>AGE</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
46	0	1	1
47	0	1	1
48	1	1	2
49	0	0	1
50	0	0	0
51	3	1	1
52	0	0	1
53	1	2	2
54	1	0	0
55	3	1	1
56	0	3	0
57	2	1	2
58	1	0	1
59	1	1	1
60	2	2	0
61	2	2	0
62	1	1	0
63	2	1	1
64	3	5	1
65	1	2	2
66	0	1	2
67	3	3	3
68	3	1	1
69	3	0	0
70	0	3	2
71	3	0	3
72	1	4	0
73	1	0	3
74	1	1	3
75	2	2	0
76	1	2	2
77	0	0	1
78	0	0	0
79	3	0	1
80	0	1	0
81	0	0	0
82	1	0	0
83	0	0	2
84	1	2	1
85	0	0	1
86	1	1	0
87	0	1	3
88	1	0	0
89	2	1	0
90	1	1	1
91 +	2	2	2
Unknown	3	0	28

declined from 38 deaths/year in 1970-1974, to 34 deaths/year in 1975-1979, to 27 deaths/year in 1980-1984.

FATAL FIRE VICTIMS

Adult men consistently represent half of all fire fatalities. Women represent approximately 30% and children account for 20% of all fire deaths.

The decline in fire deaths is shown dramatically when looking at who dies in fires. The average number of men who died in fires in the early 70's was 77 per year. This has dropped to 53 per year in the early 80's.

The average number of women dying in fires was 43 in the early 70's and has dropped to 35 per year for the early 80's.

In 1970-1974 an average of 36 children died in fires each year; in 1975-1979 the average was 21 child deaths per year. For 1980-1984 19 children, on the average died in fires each year. The 50% decrease in the child victims from the early 70's to the early 80's is encouraging, given that one is one too many.

Multiple-Death Fires

There is a slightly different picture when examining who dies in multiple-death fire tragedies. Children account for nearly half of the victims in these fires, 42%. Adult men represent one-third (24%) and women account for one-quarter (24%) of these deaths.

WHEN

Fatal Fires

Averaging the number of fatal fires in each month over fifteen years shows December, January, February, and March to be the "worst" months. June, August, September and November are the "safest" months, meaning that fewer fatal fires occurred during these months.

15-YEAR AVERAGE OF FIRE DEATHS BY MONTH

<u>RANK</u>	<u>MONTH</u>	<u>AVERAGE FIRE DEATHS</u>
#1	January	17
#2	March	16
#3	February	14
#4	December	12
#5	April	10
#6	October	10
#7	May	9
#8	July	8
#9	November	7
#10	August	6
#11	June	5
#12	September	5

Multiple-Death Fires

Multiple-death fires occur most frequently during the same months when fatal fires generally are most likely to occur: December, January, February and March.

MULTIPLE-DEATH FIRES BY MONTH

<u>RANKING</u>		<u>MONTH</u>
"worst"	#1	March
	#2	December
	#3	February
	#4	January
	#5	July
	#6	October
	#7	May
	#8	April
	#9	August
	#10	June
	#11	September
"safer"	#12	November

OCCUPANCY

Fatal Fires

95% of fatal fires in the preiod 1970-1984 occurred in residential occupancies. Residential property includes houses, apartments, rooming houses and hotels.

All other occupancies (including motor vehicles) accounted for the remaining 5% of fatal fires.

FIRE DEATHS BY MONTH

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
<u>JANUARY</u>	17	29	32	14	13	13	27	9	13	5	17	17	17	16	18
<u>FEBRUARY</u>	18	15	18	17	20	27	6	16	15	22	10	10	9	12	9
<u>MARCH</u>	15	26	19	15	29	13	8	10	4	17	21	8	25	19	15
<u>APRIL</u>	8	16	16	14	11	5	18	8	16	5	6	6	10	15	6
<u>MAY</u>	11	9	13	15	11	1	11	5	7	11	4	7	10	12	11
<u>JUNE</u>	2	4	18	10	7	5	3	7	2	4	2	4	2	3	8
<u>JULY</u>	12	10	9	17	2	3	3	6	12	7	5	2	7	7	17
<u>AUGUST</u>	5	9	20	2	7	6	4	4	4	7	7	4	5	8	2
<u>SEPTEMBER</u>	3	9	7	4	15	4	7	3	1	1	7	7	5	4	6
<u>OCTOBER</u>	12	20	14	19	14	5	10	5	4	4	1	11	7	11	9
<u>NOVEMBER</u>	11	12	10	14	8	5	6	8	6	2	9	6	11	6	3
<u>DECEMBER</u>	12	26	11	9	7	12	15	17	23	4	14	10	11	13	7

MULTIPLE-DEATH FIRES BY MONTH

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
JAN	1	2		1	2	3	1			2	1		1	1	
FEB	3	2	1	2	1	2	1	1	1	2		1		1	
MAR	1	2	3	1	3	2	1	1		2	2		1	1	
APR					1		2		1					2	1
MAY			1	2			1		1	1	1				
JUN					1	1		1							
JUL	1	1		1				2	2					1	1
AUG		1	2		1			1		1	1			1	
SEP		1									1				
OCT	1	1	1	1	1		1					2		2	1
NOV									1						
DEC	1	3				1	2	3	4		2	1	1		

MULTIPLE-DEATH FIRE FATALITIES BY MONTH

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
		7	7		4	8	13	3			6	3		4	5
	9	3	6	7	3	10		3	3	10		3		3	
	4	12	10	4	10	7	3	3		8	8		8	5	
					4		9		7					10	4
			5	9			6		3	7	3				3
					5	3		3							
	3	4	1	10				6	6					4	15
		4	8		4			3		4	3			3	
		3									3				
	4	5	4	3	4		4					8		7	3
									3						
	3	10				4	7	10	15		8	3	4		

FATAL FIRES BY OCCUPANCY

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
RESIDENTIAL	98	77	110	108	96	96	64	65	63	47	68	64	79	73	69
MOTOR VEHICLE	5	7	2	7	1		1	1	1	4	1	4	8	4	7
EDUCATIONAL		1						1		2					
STORES/DEWLINGS	4		4	1	4					2					2
MERCANTILE		2			2					1					1
UNCLASSIFIED	6	4	6	3	1		2	1	1	2					1
GARAGES			1		1	1	1		1	1					
FACTORIES WORKSHOPS	1	1	2	3	1		1	1	1						
INSTITUTIONS HOSPITALS	1	2	3	1	3	1			1					1	1
OFFICES		1	1		1										2
PETROLEUM PRODUCTS DISTRIBUTION			1		1										
WAREHOUSES		1		1	1										
BARN															1

FIRE DEATHS BY OCCUPANCY

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
RESIDENTIAL	101	165	157	131	130	97	103	89	100	73	96	83	197	108	94
MOTOR VEHICLE	5	9	2	7	1		1	1	1	4	1	8	11	4	7
EDUCATIONAL	1							1		5					
STORES/DWELLINGS	4		6	3	4					2					3
MERCANTILE	3				2					1					1
UNCLASSIFIED	9	4	11	6	1		3	4	3	2					1
GARAGES	1				1	1	1	1	1	1					
FACTORIES WORKSHOPS	1	2	8	1			1		1						
INSTITUTIONS HOSPITALS	1	2	3	1	3	1			1					7	1
OFFICES		1	1		1										2
PETROLEUM PRODUCTS DISTRIBUTION			2		1										
WAREHOUSES		1		1	1										
BARN															1

[illegible]

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
SMOKING	40	45	53	40	32	30	20	18	18	13	20	14	16	20	16
MATCHES	1	3	2	4	1		1						5		
CHILDREN PLAYING	5	4	4	2	4				1	1	1		1	1	1
CHIMNEYS		1	1							1			1		
POWER OIL BURNERS															
OIL WATER HEATERS															
NON-OIL WATER HTRS							1								
RANGE OIL BURNERS															1
PORTABLE OIL BURNERS	1				1		1								
UNCLASSIFIED OIL BURNERS					1					1					
NON-OIL HEATING	1	1	2		1	1	1	2		2	2	3	4	2	1
LPG			1				1			1			1		
ELECTRICAL	7	6	9	6	6	4	5	4	1	3	4	4	10	5	10
GAS	2	1	1		1			1	1		1	1	1		
HEATING/ LIGHTING	2	1	3	2	2					1	3		1	1	
COOKING FLAMMABLE FLUIDS	2	5	5	4	1	1		1		4	1	1	3	1	1
INCENDIARY	8	4	13	1	6		2	3	1	1	2		4	2	8
LIGHTENING			1												
OUTDOOR FIRE SPONTANEOUS IGNITION	2	1			1							1			
UNKNOWN	18	26	25	37	47	34	40	35	41	25	33	21	26	33	34
SUSPICIOUS MOTOR VEHICLE	5	5	2	5	2		1		1	4	2	2	6	4	7
UNCLASSIFIED MISUSE OF HEAT IGNIT.	2	1	3	3	4		1		2			1	1	2	1

CAUSES OF FIRE DEATHS

[illegible]

CAUSES OF MULTIPLE-DEATH FIRES

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
SMOKING	3		2		1	1	1	1		1				3	
MATCHES														1	
CHILDREN PLAYING		1													
CHIMNEYS															
POWER OIL BURNERS															
OIL WATER HEATERS															
NON-OIL WATER HTRS															
RANGE OIL BURNERS															1
PORTABLE OIL BURNERS															
UNCLASSIFIED OIL BURNERS															
NON-OIL HEATING						1				1	1				
LPG															
ELECTRICAL			1			1	1			1	1				
GAS HEATING/ LIGHTING															
COOKING FLAMMABLE FLUIDS		1								1					
			1	1		1					1				
INCENDIARY	2	2					3	1		1	1		1	2	1
LIGHTENING															
OUTDOOR FIRE SPONTANEOUS IGNITION															
UNKNOWN	1	7	7	5	6	4	5	6	8	1	5	3	2	4	3
SUSPICIOUS MOTOR VEHICLE					1				1			1			
												1	1		
UNCLASSIFIED MISUSE OF HEAT IGNIT.	1		1	1	1				1						

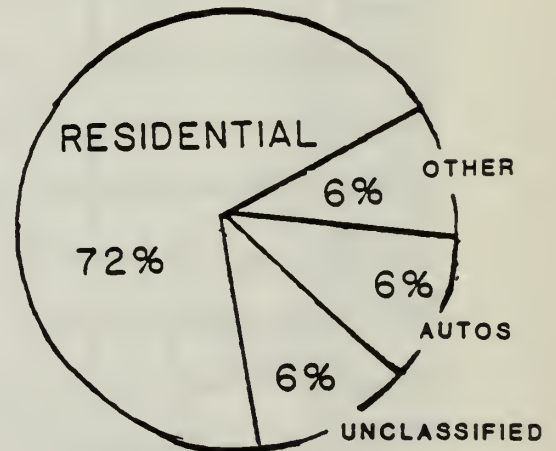
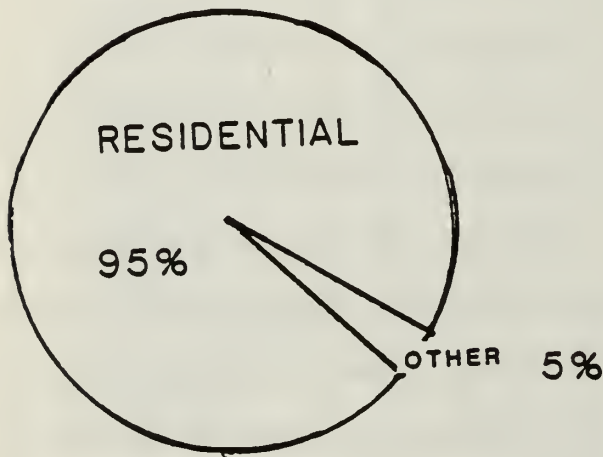
Fire Deaths

72% of fire deaths occurred in residential occupancies.

Unclassified and motor vehicle fires were the only other noteworthy occupancy categories, although accounting for roughly 6% each of fire deaths.

FATAL FIRES

FIRE DEATHS



Multiple-Death Fires

Nearly all multiple-death fires occurred in residential occupancies. Multiple-death fires did occur in other occupancies, but rarely. From 1982 forward, we separated rooming houses out from the broader residential category, because we were consistently seeing multiple-death fires in rooming houses.

CAUSES

Fatal Fires and Fire Deaths

The leading known causes of both fatal fires and fire deaths over the past fifteen years have been smoking, arson, electrical and motor vehicle causes.

Approximately half of all fatal fires were reported with undetermined origins.

Smoking

Fatal fires and fire deaths due to careless use and disposal of smoking materials have both dropped by 50% from the early 70's to the early 80's. However, smoking is still the leading known cause of fatal fires.

Heating

Fatal fires caused by heating and the number of deaths they involve have been steadily increasing from 1970 to now. A large increase in fires caused by alternative heating sources rather than central heating equipment is the major contributing factor in the rise in heating-caused fatal fires.

Children Playing With Matches

Although children playing with matches is not a major cause of fatal fires it is interesting to note the significant decrease in fatal fires started this way. The early seventies had roughly four (4) fatal fires per year caused by children playing with matches. The early eighties showed an average of one such fatal fire per year.

Multiple-Death Fire Causes

The leading known causes of multiple-death fires are the same as for fatal fires generally: smoking and arson

Once again the cause of a significant portion of these fires was reported as undetermined.

SOURCES OF INFORMATION

The information studied in this report comes from a record-log book kept in the Massachusetts State Fire Marshal's Office over a fifteen year period and from the Massachusetts Fire Incident Reporting System (MFIRS) which has been in existence since 1982.

The log-book of fatal fire incidents may not be 100% accurate, but it contains sufficient information to make realistic judgements about cause, occupancy, gender of victims and multiple-death fires.

The MFIRS data is significantly more reliable and far more detailed.

HOW TO READ THE FOLLOWING TABLES

The following tables list the number of fatal fires and the number of fire deaths by year for each county and each community. They may be difficult to read. The first number in each column is the number of fatal fires for that community (or county) for that year. The second number is the number fire deaths in that community for th year at the top of the column.

Example:

1969

New Bedford 2-2

Read this as: New Bedford had two fatal fires in 1969 which resulted in two fire deaths.

FATAL FIRES AND FIRE DEATHS BY COUNTY

<u>COUNTY</u>	<u>YEAR</u> <u>FATAL FIRES/DEATHS</u>															
	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
BARNSTABLE	0-0	3-5	2-6	4-7	2-2	2-2	1-1	1-1	2-3	1-1	4-4	2-2	1-1	2-2	2-2	2-2
BERKSHIRE	1-6	2-2	7-8	4-4	2-2	2-2	2-3	3-3	1-1	3-3	0-0	0-0	2-2	3-3	0-0	0-0
BRISTOL	7-9	7-8	12-14	16-22	5-5	5-6	1-1	3-3	6-8	7-10	4-6	7-15	4-4	7-8	8-9	3-3
DUKES	1-1	0-0	0-0	1-1	0-0	0-0	0-0	0-0	0-0	1-1	0-0	14-21	0-0	0-0	0-0	0-0
ESSEX	13-16	8-8	10-17	14-18	20-33	13-14	5-5	12-22	9-9	12-23	9-11	0-0	4-5	9-12	9-12	14-31
FRANKLIN	3-4	0-0	3-3	2-4	2-2	0-0	0-0	1-1	0-0	0-0	1-1	3-6	1-1	1-1	0-0	0-0
HAMPDEN	9-10	12-19	12-14	6-7	15-19	8-8	4-6	7-13	5-9	4-9	2-2	0-0	11-14	11-13	10-17	8-8
HAMPSHIRE	1-1	1-1	3-4	1-1	1-1	1-1	0-0	0-0	0-0	2-2	1-1	13-19	1-1	3-4	3-3	0-0
MIDDLESEX	23-27	19-20	24-31	24-35	20-20	17-19	19-30	15-16	20-24	11-18	11-11	3-4	19-23	13-23	13-14	12-12
NANTUCKET	0-0	0-0	0-0	1-1	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
NORFOLK	12-13	11-14	8-9	8-9	7-9	5-5	5-8	8-8	9-14	1-1	8-14	3-4	3-7	7-9	1-1	6-6
PLYMOUTH	8-10	6-10	3-5	10-15	3-9	7-7	6-8	10-16	4-4	5-12	1-3	7-10	1-1	11-11	7-10	5-5
SUFFOLK	21-25	17-24	22-43	19-38	18-18	26-46	16-20	11-19	14-19	11-16	9-16	16-18	21-25	15-20	15-24	16-16
WORCESTER	10-16	14-16	17-23	20-27	14-30	17-20	4-10	9-16	3-3	9-9	8-13	5-7	6-10	12-12	11-21	12-20

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
	Fires/Deaths	Fires/Deaths	Fires/Deaths	Fires/Deaths	Fires/Deaths	Fires/Deaths	Fires/Deaths	Fires/Deaths	Fires/Deaths	Fires/Deaths	Fires/Deaths
ABINGTON											
ACTON			1	4	1					1	1
ACUSHNET					1						
ADAMS			1			1					
AGAWAM		4		1	1	1		1			1
ALFORD											
AMESBURY					1						
AMHERST								4			
ANDOVER					2						1
ARLINGTON	1				1	1	1		1		
ASHBURNHAM					2						
ASHBY											
ASHFIELD											
ASHLAND											
ATHOL	1						7				
ATTLEBORO		2	2	4		1		1	1	3	
AUBURN											
AVON											
AYER	1										
BARNSTABLE		1									
CENTERVILLE-OSTERVILLE											1
COTUIT											
HYANNIS						1			1	1	
WEST BARNSTABLE											
BARRE											
BECKET											
BEDFORD											
BELCHERTOWN								2			
BELLINGHAM	1	2				1				1	
BELMONT			1	1							
BERKLEY											
BERLIN											
BERNARDSTON											
BEVERLY			1	2		2		1			
BILLERICA			2	1		1					

[illegible]

[illegible]

[illegible]

[illegible]

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
MARION											
MARSHFIELD				1	2	2	2	1	1		1
MARLBOROUGH				1	3		2	1			
MASHPEE				1	1		2				
MATTAPOISETT				1	1						
MAYNARD										3	1
MEDFIELD				1	1	1	1	1	1		
MEDFORD	1	1									
MEDWAY	1	2						1			
MELROSE											
MENDON											
MERRIMAC			1	2							
METHUEN			1	1	4	1	1				
MIDDLEBOROUGH			1	1	1	1	1	1	1	5	
MIDDLEFIELD											
MIDDLETON											
MILFORD											
MILLBURY	1	2	2							1	
MILLS	1	2	2			1			1		
MILLVILLE											
MILTON		1	1	2	1	1	1		1	2	2
MONROE											
MONSON											
MONTAGUE				1	1	1					
MILLERS FALLS											
TURNERS FALLS											
LAKE PLEASANT								1			
MONTEREY											
MONTGOMERY											
MOUNT WASHINGTON											
NAHANT											
NANTUCKET				1	1						
NATICK										2	
NEEDHAM										4	
NEW ASHFORD		1	1					1			

[illegible]

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	
PEMBROKE												
PHILLIPSTON												
PITTSFIELD	1	1	4	5	1	1	1	1	2		1	3
PLAINFIELD												
PLAINVILLE												
PLYMOUTH	3	5										
PLYMPTON												
PRINCETON												
PROVINCETOWN												
QUINCY	2	1	1	1	2	1	1	1	2	1	1	
RANDOLPH												
RAYNHAM				3								
READING			1				1		1			
REHOBOTH	1	1	1									
REVERE	2			1	1	1	4	5	1	1		1
RICHMOND												
ROCHESTER												
ROCKLAND	1								1			
ROCKPORT					1			1				
ROWE			1	1				1	1			
ROWLEY			1									
ROYALSTON												
RUSSELL												
RUTLAND												
SALEM					1		1					
SALISBURY		1			1							
SANDISFIELD	1				1							
SANDWICH			1									
SAUGUS			1	5						1		4
SAVOY				1								
SCITUATE				3	2			1		1		3
SEEKONK												
SHARON												
SHEFFIELD		1			1							
SIBLEY CENTER												

[illegible]

[illegible]

	1	2	3	4	5	6	7	8	9	10	11	12	13
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989			
1 ABINGTON				1	1								
2 ACTON				1	1								
3 ACUSHNET													
4 ADAMS													
5 AGAWAM				1									
6 ALFORD					1								
7 AMESBURY													
8 AMHERST				1									
9 ANDOVER	1	2											
10 ARLINGTON			1	1									
11 ASHBURNHAM													
12 ASHBY													
13 ASHFIELD													
14 ASHLAND	1	1		2									
15 ATHOL													
16 ATTLEBORO													
17 AUBURN			1	1	1								
18 AVON													
19 AYER													
20 BARNSTABLE													
21 CENTERVILLE/OSTERVILLE													
22 COTUIT													
23 HYANNIS	2	2	1	1									
24 WEST BARNSTABLE													
25 BARRE													
26 BECKET													
27 BEDFORD													
28 BELCHERTOWN													
29 BELLINGHAM	1	1	2	3									
30 BELMONT													
31 BERKELY													
32 BERLIN													
33 BERNARDSTON													
34 BEVERLY	2	2		2	16								
35 BILLERICA	1	1											

1A (R) LANE

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	1	2	3	4	5	6	7	8	9	10
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
1										
2					2					
3	1			1	1					
4										
5	2	2								
6										
7										
8										
9										
10										
11										
12		1	1							
13										
14		1	1							
15										
16		1	1							
17				3	1					
18		1		1	1					
19										
20										
21		3	5							
22										
23					1					
24										
25										
26										
27										
28										
29										
30										
31										
32										
33		1			1					
34										
35										

[illegible]

[illegible]

	1	2	3	4	5	6	7	8	9	10
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
1										
2	2									
3										
4		6								
5										
6		1								
7	1		1	2	1					
8										
9										
10										
11				1						
12					1					
13										
14			1							
15	2	5	5	7	6	4	7	4		4
16										
17										
18		1		1						
19					1					
20										
21				1						
22										
23										
24										
25		1		1						2
26		1								
27			1	1						1
28		2								
29			1							1
30										
31										
32										
33										
34										
35										

SHELBOURNE FALLS

SHERBORN

SHIRLEY

SHIRESBURY

SHUTESBURY

SOMERSET

SOMERVILLE

SOUTH HADLEY #1

SOUTH HADLEY #2

SOUTHAMPTON

SOUTHBOROUGH

SOUTHBURIDGE

SOUTHWICK

SPENCER

SPRINGFIELD

STERLING

STOCKBRIDGE

STONEHAM

STOUGHTON

STOW

STURBRIDGE

SUDBURY

SUNDERLAND

SUTTON

SWAMPSCOTT

SWANSEA

TAUNTON

TEMPLETON

TEWKSBURY

TISBURY

TOLLAND

TOPSFIELD

TOWNSEND

TRURO

TYNGSBOROUGH

[illegible]

	1	2	3	4	5	6	7	8	9	10
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
WESTWOOD										
WEYMOUTH	2	1	1	2						
WHATELY										
WHITMAN										
WILBRAHAM				1						
WILLIAMSBURG										
WILLIAMSTOWN										
WILMINGTON	1		1	1						
WINCHENDON										
WINCHESTER	1									
WINDSOR										
WINTRHOP										
WOBNURN			1							
WORCESTER	5	7	1	1	2					
WORTHINGTON										
WRENTHAM										
YARMOUTH										
TOTAL	69	112	71	92	95	117	84	126	82	106

